

# Agilent 490 PRO micro GC

Modern micro gas chromatographs provide fast elution times and have small form factors. Standalone operation with integration performed by the GC makes these instruments attractive for process monitoring applications. They are complementary to IR spectroscopy due to their application for homonuclear gases (e.g. N<sub>2</sub>, O<sub>2</sub>, H<sub>2</sub>)

IR spectroscopy are often a preferred technique for process monitoring due to fast response times. Traditionally, gas chromatographs were slow due to long elution times from gas separation columns. With modern GC's, elution times are much lower and analysis can be performed in a few minutes.

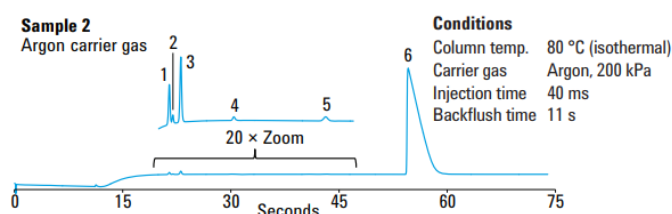
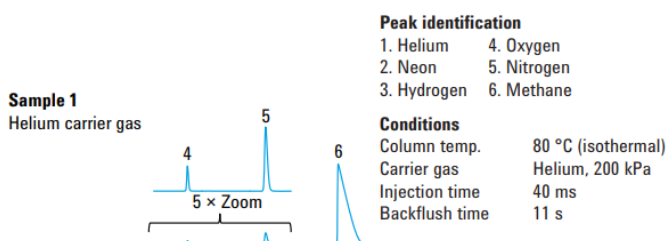
The Agilent 490 PRO is a standalone version: peak area calculations are performed by the GC. No PC is required as the GC reports analytical results directly to analog and/or digital outputs. The instrument has two channels, where Molsieve and PPQ columns are installed. This configuration makes the 490 PRO ideal for analysis of N<sub>2</sub>, O<sub>2</sub>, CO<sub>2</sub>, CO, H<sub>2</sub>. A Genie 170 filter protects the GC from harmful (e.g. condensing) gases. Typical applications include process gas monitoring, hydrogen fuel quality control.



## Agilent 490 PRO

- Two channels
- Dual carrier gas option
- Max. 180 °C column temperature
- Thermal conductivity detector (TCD)
- Molsieve 5A 10 m column
- PPQ 10 m column
- PRO edition: standalone operation with A, D result output
- LOD typically low ppm mol level
- Genie filter
- Transportable, weight 6.4 kg

Permanent Gases



Analysis of permanent gases on a 10 m Molsieve 5Å column.

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